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Division Waste Management

Section Superfund

Program IHS (IHS)

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STATE OF NORTH CAROLINA

DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES

Box 27687

Raleigh 27611



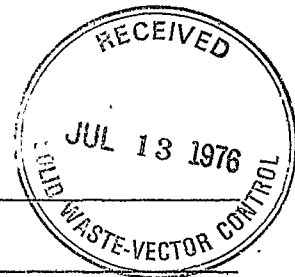
JAMES E. HOLSHOUSER, JR.  
GOVERNOR

JAMES E. HARRINGTON  
SECRETARY  
TELEPHONE  
AREA CODE 919-829-4984

June 28, 1976

(Date)

ROUTING SHEET  
for  
SANITARY LANDFILL PLANS REVIEW



PROPOSED LOCATION: Buncombe County

DATE RECEIVED FROM SBH: June 25, 1976

DATE TO BE RETURNED TO SBH: July 6, 1976

ITEMS RECEIVED FROM SBH: Skyland Quadrangle, site information

ROUTING AND REVIEW SCHEDULE: (When review is complete, attach comments and hand-carry to next in line.)

	<u>Review Period</u>	<u>Date/Time Complete</u>
1. Ground Water Div.	<u>6/29-30/76</u>	<u>6/30/76 3:30</u>
2. Water Quality Div.	<u>7/1-2/76</u>	<u>7/7/76</u>
3. Dan McDonald for return to SBH	<u>7/5/76</u>	<u>7/4/76</u>

- NOTES:
- Comments may be submitted informally, using the attached form.
  - The two Divisions may reverse the sequence of their reviews.
  - The purpose of this review is to see whether or not the proposed sanitary landfill, as described in the plans, would probably have a significant effect on ground-water or surface-water resources, and to inform SBH accordingly. It is not intended to be a detailed examination or evaluation of the overall proposal. If we need more information than the plans include, we should so state in our comments to SBH.

STATE OF NORTH CAROLINA

DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES

8-10757

Rel. High 27611



JAMES E. HARRINGTON  
SECRETARY  
TELEPHONE  
AREA CODE 704-227-4244

JAMES E. HODGES, JR.  
GOVERNOR

June 28, 1976

(Date)

COMMENTS OF Ground Water DIVISION ON  
SANITARY LANDFILL SITE PROPOSAL

PROPOSED LOCATION: Buncombe County

COMMENTS:

Time does not permit a field investigation at this time. Comments may be made at a later date pending further investigation.



STATE OF NORTH CAROLINA

DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES

SECRET

Raleigh 27611



JAMES E. HARRINGTON  
SECRETARY  
TELEPHONE  
AREA CODE 919-434-4344

JAMES E. HARRINGTON, JR.  
GOVERNOR

June 28, 1976

(Date)

COMMENTS OF Water Quality DIVISION ON  
SANITARY LANDFILL SITE PROPOSAL

PROPOSED LOCATION: Buncombe County

COMMENTS:

The report does not provide adequate information on the solubility or nature of the spent resins to determine the potential for surface water pollution from leachates. The review time did not provide an on site evaluation.

A handwritten signature in cursive script, appearing to read "Robert A. Carter".

Robert A. Carter, Head  
Water Quality Operations Branch



SURVEYOR'S DICTATION

From: Walker Manufacturing Company

TO;

Lying and being in Limestone Township, on the East of Shoals Road, and within the present tract of Walker Manufacturing Co., and more particularly described as follows:

BEGINNING on a stake on the Northwest side of a service road leading from Shoals Road into the Walker Manufacturing Company property, said stake being located North  $41^{\circ} 10'$  East 399.0 feet from a concrete marker on the East bank and right-of-way of said Shoals Road, which marks the Southwest corner of the Walker Manufacturing Company property and runs North  $07^{\circ} 00'$  West 486.0 feet to a stake; thence North  $83^{\circ} 25'$  East 215.0 feet to a stake; thence South  $02^{\circ} 10'$  East 369.0 feet to a stake; thence South  $34^{\circ} 05'$  West 173.0 feet to a stake; thence North  $86^{\circ} 00'$  West 71.53 feet to the point or place of the BEGINNING.. Containing 2.06 Acres.

BEING a 2.06 acre tract of land lying towards the west within the present tract of Walker Manufacturing Company lands, containing test boring holes within said tract.

SECTION IX  
REQUIRED INFORMATION FOR APPROVAL OF  
SANITARY LANDFILL SITES AND OPERATIONAL PLANS

- I. Landfill Site
- A. 1. Contour map enclosed (Enclosure No. 9)
    - 2. None
    - 3. On contour map (Enclosure No. 9)
    - 4. On contour map (Enclosure No. 9)
  - B. Soil borings (Enclosures No. 2-7)
  - C. Soil bore sample data (Enclosures No. 2-7)
  - D. French Broad River watershed
- II. Operational Plans
- A. Plot on contour map (Enclosure No. 9)
  - B. On contour map (Enclosure No. 9)
  - C. On contour map (Enclosure No. 9)
  - D. Cross-Sectional drawing (Enclosure No. 10)
  - E. None
  - F. Trenching is the proposed method of landfilling.
  - G. Not applicable
  - H. Erosion control will be implemented by seeding field grass.
  - I. Promotion of vegetable growth will be implemented by seeding site with field grass.
  - J. Not applicable
  - K. Not applicable
  - L. Surveyor's Dictation (Enclosure No. 8)
  - M. 1. The landfill will serve solely the owner's manufacturing facility.
    - 2. The disposed material will be a dried resin not to exceed 96 barrels annually originating at the owner's plant.
    - 3. One backhoe will be rented for all earthmoving needs.
    - 4. Walker Manufacturing Company will operate and maintain the site.
    - 5. No use of site has been projected after completion of the landfill.
    - 6. Project lifetime is indefinite.
    - 7. Not applicable



1881

**FROEHLING & ROBERTSON, INC.**

INSPECTION ENGINEERS • CHEMISTS • BACTERIOLOGISTS

CABLE ADDRESS—"FROEHLING"

MAIN OFFICE AND LABORATORIES

P. O. BOX 27524, 814 WEST ARY, N.C.  
RICHMOND, VIRGINIA 23276  
PHONE 644 1025

BRANCH LABORATORIES

NORFOLK, CHARLOTTE, RALEIGH  
WASHINGTON, BALTIMORE  
GREENVILLE, ROANOKE, FAYETTEVILLE  
ASHEVILLE

AD 14094

Asheville, N.C.  
March 15, 1976**REPORT OF AUGER BORINGS**

Made For: Walker Manufacturing Co.  
Glen Bridge Road  
Arden, N. C. 28704

Project: Addition - Walker Manufacturing Co. (Proposed Landfill)  
Arden, N. C.

Date Drilled: March 11, 1976 Drillers: Rhymer & Oliveira

**Results of Auger Borings:**

Boring No.	Depth Drilled	Soil Classification	Remarks
B-1	20'	0"- 3' Red Clayey Micaceous Silt 3'-16' Brown Micaceous Fine Sandy Silt 16'-20' Light Tan Micaceous Silt	Boring Terminated at 20' No Rock or Water Normal Drilling 3'-16' Firm Drilling 16'-20'
B-2	20'	0"-12" Topsoil 12"- 3' Red Clayey Micaceous Silt 3'-20' Brown Micaceous Sandy Fine	Boring Terminated at 20' No Rock or Water
B-3	20'	0"- 7' Red Clayey Micaceous Silt 7'-20' Lightly Saturated Silt Brown	Boring Terminated at 20' No Rock
B-4	20'	0"- 3' Red Clayey Micaceous Silt 3'-20' Tan and Brown Micaceous Fine Sandy Silt	Boring Terminated at 20' Normal Drilling 0"-20' No Rock or Water
B-5	20'	0"- 3' Brown Micaceous Silt 3'- 9' Multicolor Pink 9'-20' Gray and Tan	Boring Terminated at 20' No Rock or Water Normal Drilling 0"-9' Firm Drilling 9'-20'

Respectfully submitted,

FROEHLING &amp; ROBERTSON, INC.

J.D. Pike



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## FROEHLING &amp; ROBERTSON, INC.

INSPECTION ENGINEERS • CHEMISTS • BACTERIOLOGISTS

CABLE ADDRESS—"FROEHLING"

MAIN OFFICE AND LABORATORY

P. O. BOX 727, 814 WEST 12TH ST.  
RICHMOND, VIRGINIA 23214  
PHONE, 644-1225

BRANCH LABORATORIES

BOSTON, CHARLOTTE, DALLAS,  
WASHINGTON, BALTIMORE,  
GREENVILLE, KANSAS CITY, ST. LOUIS,  
ATLANTA, LOS ANGELESReport No. AD 14094

## MECHANICAL ANALYSIS OF SOILS

Made for: Walker Manufacturing Co.Date tested: 3-17-76Project: Proposed LandfillTested by: R. A. Gilstrap

Sample No. #1

Location B-2 5'-10'

U.S. Standard  
Sieve Number

% Passing or Finer Than

4	100.0
10	98.4
40	88.1
200	56.45

Liquid Limit  
(ASTM D423) 40.0Plasticity Index  
(ASTM D424 ) 4.6Unified Classification  
( ASTM D 2487 ) ML

Remarks:

FROEHLING &amp; ROBERTSON, INC.

By: R. A. Gilstrap

Em (3)

SINCE



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# FROEHLING & ROBERTSON, INC.

INSPECTION ENGINEERS • CHEMISTS • BACTERIOLOGISTS

CABLE ADDRESS—"FROEHLING"

MAIN OFFICE AND LABORATORY

1000 15th St. N.W. Washington, D.C. 20004

PHONE 344 1221

BRANCH LABORATORY

1000 15th St. N.W. Washington, D.C. 20004

PHONE 344 1221

GREENVILLE SCIENCE PARK, S.C. 29615

Report No. AD 14094

## MECHANICAL ANALYSIS OF SOILS

Made for: Walker Manufacturing Co.

Date tested: 3-17-76

Project: Proposed Landfill

Tested by: R. A. Gilstrap

Sample No. #2

Location B-3 4'-5'

U.S. Standard  
Sieve Number

% Passing or Finer Than

4	99.70
10	99.15
40	96.75
200	88.30

Liquid Limit  
(ASTM D423) 58.9

Plasticity Index  
(ASTM D424 ) 17.0

Unified Classification  
( ASTM D 2487 ) MH

Remarks:

FROEHLING & ROBERTSON, INC.

By: R. A. Gilstrap

Enc (4)



# FROEHLING & ROBERTSON, INC.

INSPECTION ENGINEERS • CHEMISTS • BACTERIOLOGISTS

CABLE ADDRESS—"FROEHLING"

MAIN OFFICE AND LABORATORY

1000 FST. S. W. WEST CAMP, WASH. D.C.  
 PHONE 600 1023

BRANCH LABORATORY

GREENVILLE, S.C.  
 GREENVILLE, S.C.

Report No. AD 14094

## MECHANICAL ANALYSIS OF SOILS

Made for: Walker Manufacturing Co.

Date tested: 3-17-76

Project: Proposed Landfill

Tested by: R. A. Gilstrap

Sample No. #3

Location B-3 14'-15'

U.S. Standard  
 Sieve Number

% Passing or Finer Than

4	99.25
10	96.15
40	89.55
200	68.75

Liquid Limit  
 (ASTM D423) 46.6

Plasticity Index  
 (ASTM D424 ) 14.1

Unified Classification  
 ( ASTM D 2487 ) ML

Remarks:

FROEHLING & ROBERTSON, INC.

By: R. A. Gilstrap

ENC 5



**FROEHLING & ROBERTSON, INC.**  
INSPECTION ENGINEERS • CHEMISTS • BACTERIOLOGISTS  
CABLE ADDRESS—"FROEHLING"

MAIN OFFICE AND LABORATORY:  
P. O. BOX 727, 814 WEST CANTON ST.  
CHICAGO 24, ILL. U.S.A.  
PHONE 944-1221  
BRANCH LABORATORIES:  
CHICAGO, CHICAGO, ILL. U.S.A.  
WASHINGTON, D.C. U.S.A.  
GREENVILLE, SOUTH CAROLINA U.S.A.  
ALBANY, N.Y. U.S.A.

Report No. AD 14094

**MECHANICAL ANALYSIS OF SOILS**

Made for: Walker Manufacturing Co.

Date tested: 3-17-76

Project: Proposed Landfill

Tested by: R. A. Gilstrap

Sample No. #4

Location B-1 10'-20'

U.S. Standard  
Sieve Number

% Passing or Finer Than

4	97.50
10	92.55
40	79.50
200	41.85

Liquid Limit  
(ASTM D423) 30.4

Plasticity Index  
(ASTM D424 ) Non Plastic

Unified Classification  
( ASTM D 2487 ) SM

Remarks:

FROEHLING & ROBERTSON, INC.

By: R. A. Gilstrap

ENC 6

SINCE



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# FROEHLING & ROBERTSON, INC.

INSPECTION ENGINEERS • CHEMISTS • BACTERIOLOGISTS

CABLE ADDRESS—"FROEHLING"

MAIN OFFICE AND LABORATORIES

P. O. BOX 737, 814 WEST CARY STREET  
RICHMOND, VIRGINIA 23204  
PHONE 444-2625

BRANCH LABORATORIES

NORFOLK, CHARLOTTE, RALEIGH  
WASHINGTON, BALTIMORE  
GREENVILLE, ROANOKE, FAYETTEVILLE  
ASHEVILLE

Report No. AP 14094

## MECHANICAL ANALYSIS OF SOILS

Made For: Walker Manufacturing Co.

Date Tested: 3-17-76

Project: Proposed Landfill

Tested By: R. A. Gilstrap

Sample No. #5

Location: B-5 10'-20'

U. S. Standard  
Sieve Number

% Passing or Finer Than

4	97.50
10	92.55
40	79.50
200	41.85

Liquid Limit  
(ASTM D423) 30.4

Plasticity Index  
(ASTM D424) Non Plastic

Unified Classification  
(ASTM D 2487) SM

Remarks:

FROEHLING & ROBERTSON, INC.

By: R. A. Gilstrap

ENC 7

SURVEYOR'S DICTATION

From: Walker Manufacturing Company

TO;

Lying and being in Limestone Township, on the East of Shoals Road, and within the present tract of Walker Manufacturing Co., and more particularly described as follows:

BEGINNING on a stake on the Northwest side of a service road leading from Shoals Road into the Walker Manufacturing Company property, said stake being located North  $41^{\circ} 10'$  East 399.0 feet from a concrete marker on the East bank and right-of-way of said Shoals Road, which marks the Southwest corner of the Walker Manufacturing Company property and runs North  $07^{\circ} 00'$  West 486.0 feet to a stake; thence North  $83^{\circ} 25'$  East 215.0 feet to a stake; thence South  $02^{\circ} 10'$  East 369.0 feet to a stake; thence South  $34^{\circ} 05'$  West 173.0 feet to a stake; thence North  $86^{\circ} 00'$  West 71.53 feet to the point or place of the BEGINNING.. Containing 2.06 Acres.

BEING a 2.06 acre tract of land lying towards the west within the present tract of Walker Manufacturing Company lands, containing test boring holes within said tract.

ENC. 8

## Walker Manufacturing

A Tenneco Company

P.O. Box 687  
Glenn Bridge Road at Hy. 25  
Arden, North Carolina 28704  
704/684-8511



December 31, 1975

Mr. O. W. Strickland  
Division of Health Services  
P.O. Box 2091  
Raleigh, North Carolina 27602

Dear Mr. Strickland:

The following analysis represents solid caustic material waste from a stripping process at our plant. Our annual amount is approximately 5,000 pounds per year. Please advise as to an acceptable manner in which to dispose of this material at a private land fill.

Thank you.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "A. A. Scotchie".

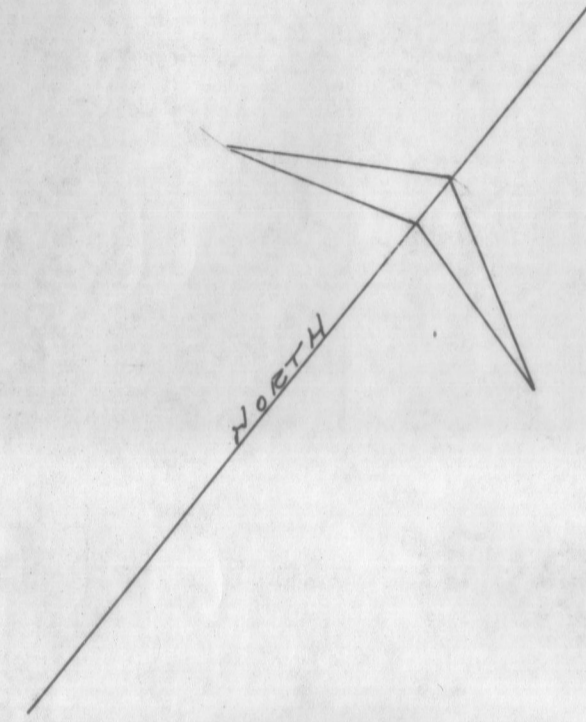
A. A. Scotchie, Supervisor  
Manufacturing Engineering

AAS/elr

**WALKER®**



<u>Chemical</u>	<u>Percent by Weight</u>
Sodium Hydroxide	40%
Sodium Metasilicate	15%
Sodium Tripolyphosphate	30%
Anoinic and nonionic Surfactants (All biodegradable)	15%



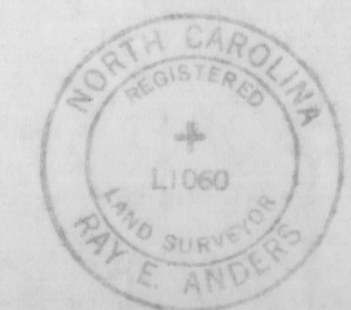
Note: New power and telephone service under construction along property line.

Note: This road under construction and final grades not set this date. Road to be paved.



TEST HOLE No.	ELEVATION
1	2261.9
2	2256.8
3	2260.1
4	2261.8
5	2268.8

NOTE: For U.S.G.S. Elevations add 2000 feet to contour elevations shown.



WALKER MANUFACTURING CO.  
ARDEN, NORTH CAROLINA  
RAY E. ANDERS DECEMBER 1968  
PAGE 3 OF 3 PAGES





STATE OF NORTH CAROLINA

JAMES E. HOLSHOUSER, JR.  
GOVERNOR

DEPARTMENT OF HUMAN RESOURCES

JACOB KOOMEN, M.D., M.P.H.  
DIRECTOR

DAVID T. FLAHERTY  
SECRETARY

*Division of Health Services*

P. O. Box 2091

Raleigh 27602

July 19, 1976

Wake County  
Raleigh, N. C.

ORDER OF APPROVAL  
for

Walker Manufacturing Company  
Resin Landfill  
SR 3522  
Buncombe County

- I. Required information for evaluating proposed site and operational plans for a sanitary landfill on the below described property has been submitted for review in compliance with the "Rules and Regulations Providing Standards for Solid Waste Disposal". Those plans are hereby approved for operation with a complete set of the approved plans being returned to the applicant.

II. Description of Property:

BEGINNING on a stake on the Northwest side of a service road leading from Shoals Road into the Walker Manufacturing Company property, said stake being located North 41° 10' East 399.0 feet from a concrete marker on the East bank and right-of-way of said Shoals Road, which marks the Southwest corner of the Walker Manufacturing Company property and runs North 07° 00' West 486.0 feet to a stake; thence North 83° 25' East 215.0 feet to a stake; thence South 02° 10' East 369.0 feet to a stake; thence South 34° 05' West 173.0 feet to a stake; thence North 86° 00' West 71.53 feet to the point or place of the BEGINNING.. Containing 2.06 Acres.

- III. Effective date: This approval is not effective until the applicant has recorded this document with the Register of Deeds in the county where the sanitary landfill is located (G.S. 130-166.21)

This is to certify that this is an exact and true copy of the above order of approval.

Jacob Koomen  
Jacob Koomen, M.D., M.P.H.  
Director  
Division of Health Services

Sidney H. Usry  
Sidney H. Usry, Head  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

*Summerville*  
*ETR*  
*and*

May 25, 1976

Mr. L. A. Scotchie, Supervisor  
Manufacturing Engineering  
Miller Manufacturing  
Glenn Bridge Road at Highway 25  
Arden, North Carolina 28704

Dear Mr. Scotchie:

The material for disposal as presented by your December 31, 1975, and May 21, 1976, letters has been discussed with appropriate Laboratory Section personnel and found to be an acceptable material for landfilling on Miller Manufacturing property.

To complete the requirements for site and operational plans, the following is required:

1. A location map showing surroundings of one-fourth mile in any direction from the site. A FVA 1041-65 area contour map or equivalent will be sufficient for this requirement.
2. More detail on the plot plan showing trench orientation and a typical profile during construction. If there is to be major contour changes, indicate also.
3. Details of proposed surface drainage patterns to show how disturbed areas will be protected from surface water during site development.
4. Proposed procedures for erosion control such as seeding and slope control.

Upon receipt of the above in triplicate, processing can be completed for this disposal proposal.

If this office can be of further assistance, do not hesitate to call.

Yours truly,

Jerry G. Perkins, Assistant Head  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

JGP:bm

cc: Mr. J. W. Moore, Jr.  
Mr. Al E. Parramore, Jr.

# Walker Manufacturing

A Tenneco Company

Glenn Bridge Road at Hy. 25  
Arden, North Carolina 28704  
704/684-8511



May 21, 1976

Mr. Jerry C. Perkins  
Assistant Head Solid Waste and  
Vector Control Branch  
P.O. Box 2091  
Raleigh, North Carolina

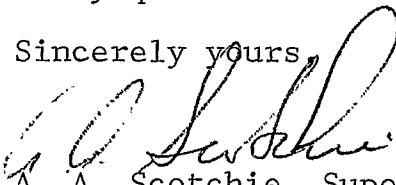
Ref: My letter of May 17, 1976

Dear Mr. Perkins:

The attached information delineates the solid resin material we plan on disposing in our sanitary landfill.

Please call me if you have any questions.

Sincerely yours,

  
A. A. Scotchie, Supervisor  
Manufacturing Engineering

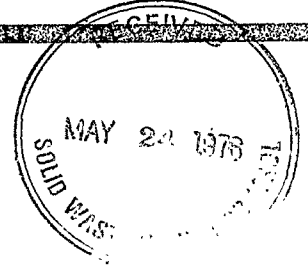
AAS/elr

**WALKER®**

# Interoffice Memo



**Walker Manufacturing**  
A Tenneco Company



February 20, 1976

To: M. Turner

cc: D. Kadish  
D. Kornmeyer  
A. Scotchie

Subject: Hook Stripping Tank, Arden Coating Facility

R.L. Von Trebra, Laboratory Manager of the Freeman Chemical Co., was contacted and the chemical analysis of the residue accumulating on the surface of the hook stripping caustic tank was discussed.

According to their theory, the only material that would be accumulating on the surface of the bath is the hardened Alkyd Copolymer resin that is softened by the caustic bath and flaked off. There would not be any solvents present because they would have been dissipated in the drying oven. The caustic material (Sodium Hydroxide #206BD) remains in solution and the amount that would blend with the resin would be negligible.

If there are any other chemicals present in the residue, they are there without Freeman Chemicals knowledge. The only definite method to determine if any foreign matters are present would be to make a complete chemical analysis of a sample of the residue.

Attached are copies of information on the Chempol 13-1402 coating material that may help you.

Please call or write if additional information is required.

*Frank R. Smith*  
Frank R. Smith

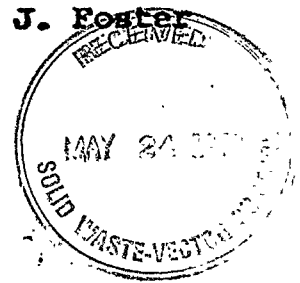
FRS:jg

Att.



CC: Dr. G. R. Svoboda  
R. J. Winters  
V. W. Ginsler  
F. L. Walters  
✓ H. J. Foster

April 17, 1972



Mr. M. A. Greco  
Walker Manufacturing Company  
1201 Michigan Blvd.  
Racine, Wisconsin 53402

Dear Mr. Greco:

In response to your telephone call to our Mr. Winters and our subsequent conversation, I am pleased to provide the following information on our Chempol 13-1402, Vinyltoluene/Alkyd Copolymer.

The resin is supplied at 50% total solids (by weight) in mineral spirits solvent. The ingredients in this resin polymer are as follows:

Soybean Oil  
Dehydrated Castor Oil  
Glycerol  
Isophthalic Acid  
Benzoic Acid  
Phthalic Anhydride  
Vinyltoluene

The various ingredients are chemically combined in our manufacturing process by esterification and free radical polymerization methods to form a chemical polymer which is then dissolved in mineral spirits solvent. Enclosed is a copy of our data sheet on Chempol 13-1402.

I would like to point out that these ingredients which are utilized in the manufacture of Chempol 13-1402 conform with the ingredients listed in the Federal Register for Tuesday, August 3, 1961 on page 7038. This refers to paragraph 121.2514 for Resinous and Polymeric Coatings of Title 21-Food and Drugs. I have enclosed copies of the applicable pages in the Federal Register for your information.

We are most anxious to provide all the technical assistance and help we can in this regard, and trust that information regarding formulation and processing of our coating resins will be held in confidence. If you require further information, please let me know.

Yours truly,

FREEMAN CHEMICAL CORPORATION

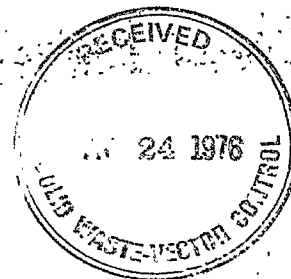
*PLV*  
R. L. von Trebra  
Manager, Coating Resins  
Laboratory

PLV:ame

Enc 1

C  
O  
P  
Y

APRIL 1965  
(Supersedes 2/65)



**CHEMPOL 13-1402**  
**Vinyl Toluene Isophthalic Alkyd Copolymer**

**DESCRIPTION:**

Chempol 13-1402 is a fast drying alkyd copolymer with excellent toughness and color retention. This resin contains no aromatics and may be used for coating polystyrene and other surfaces that are readily attacked by strong solvents. Chempol 13-1402 also exhibits outstanding recoatability with itself. Enamels prepared with Chempol 13-1402 require only slight solvent adjustments for brush, spray, roller coat, or dipping application.

**OUTSTANDING FEATURES:**

Excellent Recoat Properties  
Wide Range of Means of Application  
Fast Drying  
Outstanding Color and Toughness

**USES:**

Fast Dry Clear or Pigmented Industrial Finishes  
Coating of Polystyrene  
Toy Enamels

**TYPICAL CHARACTERISTICS:**

Total Solids, % by Weight .....	60 $\pm$ 1.0
Solvent .....	Mineral Spirits
Acid Number .....	2-6
Color .....	8 Maximum
Viscosity as Supplied .....	Z <sub>1</sub> -Z <sub>3</sub>
Reduced Viscosity @ 40% in VM&P .....	C-F
Isophthalic Acid, % .....	14
Oil .....	Soya
Modification .....	Vinyl Toluene
Weight per Gallon, lbs. ....	7.7

Seller warrants that its products will conform to the descriptions contained in paragraphs of the respective technical data sheets marked "Description." Since Seller exercises no control over Buyer's application or use of the products, and materials used with the products may vary, it is understood that:

(a) There are no express warranties other than those contained herein and there are no implied warranties that the products shall be merchantable or satisfactory for any particular purpose nor other warranties which extend beyond the description in the paragraphs of the respective technical data sheets marked "Description."

(b) While all data presented in our technical data sheets is based on the best information available to us and believed correct, such data is not to be construed as a warranty that the products will conform to such specifications and such technical data sheets are subject to change without notice.

(c) The liability of the Seller shall not exceed the sales price of the products, and Buyer shall not be entitled to nor Seller be liable for any consequential damages.

**FREEMAN CHEMICAL CORPORATION**

a subsidiary of H. H. ROBERTSON COMPANY • PITTSBURGH, PA.

PORT WASHINGTON, WISCONSIN • SAUKVILLE, WISCONSIN • AMBRIDGE, PENNSYLVANIA

CHEMPOL 13-1402  
April 1965  
Page 2 of 2



CURING:

Air Dry:

Set, minutes ..... 20-30  
Dry Hard, hours ..... 1-2  
Dry Through, hours ..... 4-5

DRIER:

Percent Metal Based on Resin Solids

Cobalt\* ..... 0.05

SOLUBILITY:

Mineral Spirits ..... Infinite  
Xylol ..... Infinite  
Butanol ..... Fair (50%)

\* As Naphthenate

# Walker Manufacturing

A Tenneco Company

Glenn Bridge Road at Hy. 25  
Arden, North Carolina 28704  
704/684-8511



May 17, 1976

Mr. Jerry C. Perkins  
Assistant Head Solid Waste and Vector Control Branch  
P.O. Box 2091  
Raleigh, North Carolina

Dear Mr. Perkins:

Walker Manufacturing Company is seeking site and operation approval for a sanitary landfill. Enclosed are three copies of data required as specified by Sanitarian James Moore pursuant to such approval. Should any more information or any clarifications be needed, please feel free to call me.

Thank you.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "A. A. Scotchie".

A. A. Scotchie, Supervisor  
Manufacturing Engineering

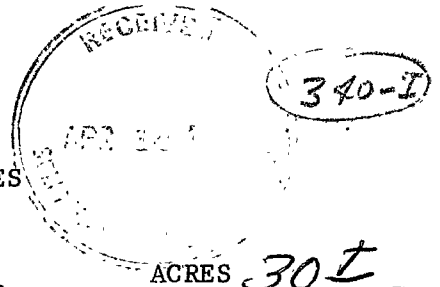
AAS/elr

Enclosures:

- (1) Data pertinent to Section IX
- (2) Core sample data summary
- (3) Core Sample No. 1 Analysis
- (4) Core Sample No. 2 Analysis
- (5) Core Sample No. 3 Analysis
- (6) Core Sample No. 4 Analysis
- (7) Core Sample No. 5 Analysis
- (8) Surveyor's Dictation
- (9) Map with Elevations showing Core Sample Locations
- (10) Cross-Sectional Drawings of Fill Area

**WALKER®**

N. C. DEPARTMENT OF HUMAN RESOURCES  
DIVISION OF HEALTH SERVICES  
CHECK-OFF SHEET FOR PROPOSED SANITARY LANDFILL SITES



COUNTY Buncombe LOCATION S.R. # 35<sup>2</sup> ACRES 30±  
PROPERTY OWNER Walker Men. Inc. PROPOSED OPERATOR Walker

1. Is this site within the boundaries of a public water supply watershed? Watershed City Water YES ✓ NO ✓
2. Does any portion of this site contain floodplain areas? YES ✓ NO ✓
3. Are there public or private wells nearby that could be affected? YES ✓ NO ✓  
Nearest well in feet City Water (Elaborate in Comments Section)
4. Are there springs present on the site? Number        YES ✓ NO ✓
5. Will this site require dyking? YES ✓ NO ✓
6. Will this site require piping of surface drainage? YES ✓ NO ✓
7. Not precluding required boring information, does this site have adequate cover material for the sanitary landfill development? YES ✓ NO ✓
8. Will this site require diversion of surface water? YES ✓ NO ✓  
Receiving stream for surface drainage from site French Br. Rd.
9. Will this site require extensive preparation, such as clearing? YES ✓ NO ✓  
(Elaborate in Comments Section)
10. Will this site require a new all-weather access road? YES ✓ NO ✓  
(Elaborate in Comments Section)
11. Evaluate the following:
- |   | POOR     | GOOD     | EXCELLENT |
|---|----------|----------|-----------|
| A. Surface soil conditions as related to cover requirements | <u>✓</u> | <u>✓</u> | <u>✓</u>  |
| B. Location as related to population density                | <u>✓</u> | <u>✓</u> | <u>✓</u>  |
| C. Accessibility to users                                   | <u>✓</u> | <u>✓</u> | <u>✓</u>  |
12. Based on the observations made above and otherwise, do you recommend that the requestor proceed with the requirements of Section IX of the Division of Health Services "Rules and Regulations Providing Standards for Solid Waste Disposal"? YES ✓ NO ✓
13. COMMENTS: (Include any requirements noted by you for the sanitary landfill development and operation) Disposal every three (3) months.  
Waste should be placed into a shallow hole  
and backfilled with a minimum of 1 foot (2)  
feet cover at time of disposal.
14. Number of borings recommended for a representative sampling of the site 5
15. Percent of usable land 75%. Include sketch of site on back of this form.

1-19-76  
(DATE)

J. W. Moore Jr.  
Division of Health Services  
District Sanitarian for Solid Waste  
or  
Sanitary Engineer

TEWNECO Inc

WALKER MFG CO

P.O. Box 428

ARDEN, N.C. 28704

SECTION IX  
REQUIRED INFORMATION FOR APPROVAL OF  
SANITARY LANDFILL SITES AND OPERATIONAL PLANS

I. Landfill Site

- A. 1. Contour map enclosed (Enclosure No. 9)
  - 2. None
  - 3. On contour map (Enclosure No. 9)
  - 4. On contour map (Enclosure No. 9)
- B. Soil borings (Enclosures No. 2-7)
- C. Soil bore sample data (Enclosures No. 2-7)
- D. French Broad River watershed

II. Operational Plans

- A. Plot on contour map (Enclosure No. 9)
- B. On contour map (Enclosure No. 9)
- C. On contour map (Enclosure No. 9)
- D. Cross-Sectional drawing (Enclosure No. 10)
- E. None
- F. Trenching is the proposed method of landfilling.
- G. Not applicable
- H. Erosion control will be implemented by seeding field grass.
- I. Promotion of vegetable growth will be implemented by seeding site with field grass.
- J. Not applicable
- K. Not applicable
- L. Surveyor's Dictation (Enclosure No. 8)
- M. 1. The landfill will serve solely the owner's manufacturing facility.
  - 2. The disposed material will be a dried resin not to exceed 96 barrels annually originating at the owner's plant.
  - 3. One backhoe will be rented for all earthmoving needs.
  - 4. Walker Manufacturing Company will operate and maintain the site.
  - 5. No use of site has been projected after completion of the landfill.
  - 6. Project lifetime is indefinite.
  - 7. Not applicable



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**FROEHLING & ROBERTSON, INC.**

INSPECTION ENGINEERS • CHEMISTS • BACTERIOLOGISTS

CABLE ADDRESS—"FROEHLING"

MAIN OFFICE AND LABORATORIES

P. O. BOX 27524, 814 WEST 10TH AVE.,  
RICHMOND, VIRGINIA 23276  
PHONE 844-1025

BRANCH LABORATORIES

NORFOLK, CHARLOTTE, RALEIGH  
WASHINGTON, BALTIMORE  
GREENVILLE, ROANOKE, PLYMOUTHVILLE  
ASHEVILLE

AD 14094

Asheville, N.C.  
March 15, 1976**REPORT OF AUGER BORINGS****Made For:** Walker Manufacturing Co.  
Glen Bridge Road  
Arden, N. C. 28704**Project:** Addition - Walker Manufacturing Co. (Proposed Landfill)  
Arden, N. C.**Date Drilled:** March 11, 1976 **Drillers:** Rhymer & Oliveira**Results of Auger Borings:**

Boring No.	Depth Drilled	Soil Classification	Remarks
B-1	20'	0"- 3' Red Clayey Micaceous Silt 3'-16' Brown Micaceous Fine Sandy Silt 16'-20' Light Tan Micaceous Silt	Boring Terminated at 20' No Rock or Water Normal Drilling 3'-16' Firm Drilling 16'-20'
B-2	20'	0"-12" Topsoil 12"- 3' Red Clayey Micaceous Silt 3'-20' Brown Micaceous Sandy Fine	Boring Terminated at 20' No Rock or Water
B-3	20'	0"- 7' Red Clayey Micaceous Silt 7'-20' Lightly Saturated Silt Brown	Boring Terminated at 20' No Rock
B-4	20'	0"- 3' Red Clayey Micaceous Silt 3'-20' Tan and Brown Micaceous Fine Sandy Silt	Boring Terminated at 20' Normal Drilling 0"-20' No Rock or Water
B-5	20'	0"- 3' Brown Micaceous Silt 3'- 9' Multicolor Pink 9'-20' Gray and Tan	Boring Terminated at 20' No Rock or Water Normal Drilling 0"-9' Firm Drilling 9'-20'

Respectfully submitted,

FROEHLING &amp; ROBERTSON, INC.

J.D. Pike



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RICHMOND, VIRGINIA 23211  
PHONE 644-1571

BRANCH LABORATORIES

MOBILE, CHARLOTTE, DALLAS,  
WASHINGTON, D.C., BALTIMORE,  
GREENVILLE, PORTLAND, PORTSMOUTH,  
ASHEVILLEReport No. AD 14094

## MECHANICAL ANALYSIS OF SOILS

Made for: Walker Manufacturing Co.Date tested: 3-17-76Project: Proposed LandfillTested by: R. A. Gilstrap

Sample No. #1

Location B-2 5'-10'

U.S. Standard  
Sieve Number

% Passing or Finer Than

4	100.0
10	98.4
40	88.1
200	56.45

Liquid Limit  
(ASTM D423) 40.0Plasticity Index  
(ASTM D424 ) 4.6Unified Classification  
( ASTM D 2487 ) ML

Remarks:

FROEHLING &amp; ROBERTSON, INC.

By: R. A. Gilstrap

SINCE



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CABLE ADDRESS—"FROEHLING"

MAIN OFFICE AND LABORATORY

P. O. BOX 737, 8 A WEST CARR LANE  
RICHMOND, VIRGINIA 23133  
PHONE 644-1221

BRANCH LABORATORY

BOSTON, MASSACHUSETTS  
WASHINGTON, D. C.  
GREENVILLE, SOUTH CAROLINAReport No. AD 14094

## MECHANICAL ANALYSIS OF SOILS

Made for: Walker Manufacturing Co.Date tested: 3-17-76Project: Proposed LandfillTested by: R. A. GilstrapSample No. #2Location B-3 4'-5'U.S. Standard  
Sieve Number

% Passing or Finer Than

4	99.70
10	99.15
40	96.75
200	88.30

Liquid Limit  
(ASTM D423) 58.9Plasticity Index  
(ASTM D424 ) 17.0Unified Classification  
( ASTM D 2487 ) MH

Remarks:

FROEHLING &amp; ROBERTSON, INC.

By: R. A. Gilstrap



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GREENVILLE, S.C. 29603  
PHONE 644-7275

BRANCH LABORATORIES

MOBILE, CHARLOTTE, FAYETTEVILLE, N.C.  
WASHINGTON, D.C.  
GREENVILLE, S.C.  
ASHEVILLE, N.C.

Report No. AD 14094

## MECHANICAL ANALYSIS OF SOILS

Made for: Walker Manufacturing Co.

Date tested: 3-17-76

Project: Proposed Landfill

Tested by: R. A. Gilstrap

Sample No. #3

Location B-3 14'-15'

U.S. Standard  
Sieve Number

% Passing or Finer Than

4	99.25
10	96.15
40	89.55
200	68.75

Liquid Limit  
(ASTM D423) 46.6

Plasticity Index  
(ASTM D424 ) 14.1

Unified Classification  
( ASTM D 2487 ) ML

Remarks:

FROEHLING & ROBERTSON, INC.

By: R. A. Gilstrap

SINCE



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BIRMINGHAM 16, ALA.  
PHONE 666-1221

BRANCH LABORATORIES

BOSTON, CHARLOTTE, BALTIMORE,  
WASHINGTON, D. C.,  
GREENVILLE, SCARLETT, ALABAMA,  
ASHLEY, ALA.Report No. AD 14094

## MECHANICAL ANALYSIS OF SOILS

Made for: Walker Manufacturing Co.Date tested: 3-17-76Project: Proposed LandfillTested by: R. A. Gilstrap

Sample No. #4

Location B-1 10'-20'

U.S. Standard  
Sieve Number

% Passing or Finer Than

4	97.50
10	92.55
40	79.50
200	41.85

Liquid Limit  
(ASTM D423) 30.4Plasticity Index  
(ASTM D424 ) Non PlasticUnified Classification  
( ASTM D 2487 ) SM

Remarks:

FROEHLING &amp; ROBERTSON, INC.

By: R. A. Gilstrap

SINCE



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# FROEHLING & ROBERTSON, INC.

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RICHMOND, VIRGINIA 23204  
PHONE 644-3823

BRANCH LABORATORIES

NORFOLK, CHARLOTTE, RALEIGH  
WASHINGTON, BALTIMORE  
GREENVILLE, SPANOKA, FAYETTEVILLE  
ASHEVILLE

Report No. AD 14094

## MECHANICAL ANALYSIS OF SOILS

Made For: Walker Manufacturing Co.

Date Tested: 3-17-76

Project: Proposed Landfill

Tested By: R. A. Gilstrap

Sample No. #5

Location: B-5 10'-20'

U. S. Standard  
Sieve Number

% Passing or Finer Than

4	97.50
10	92.55
40	79.50
200	41.85

Liquid Limit  
(ASTM D423) 30.4

Plasticity Index  
(ASTM D424) Non Plastic

Unified Classification  
(ASTM D 2487) SM

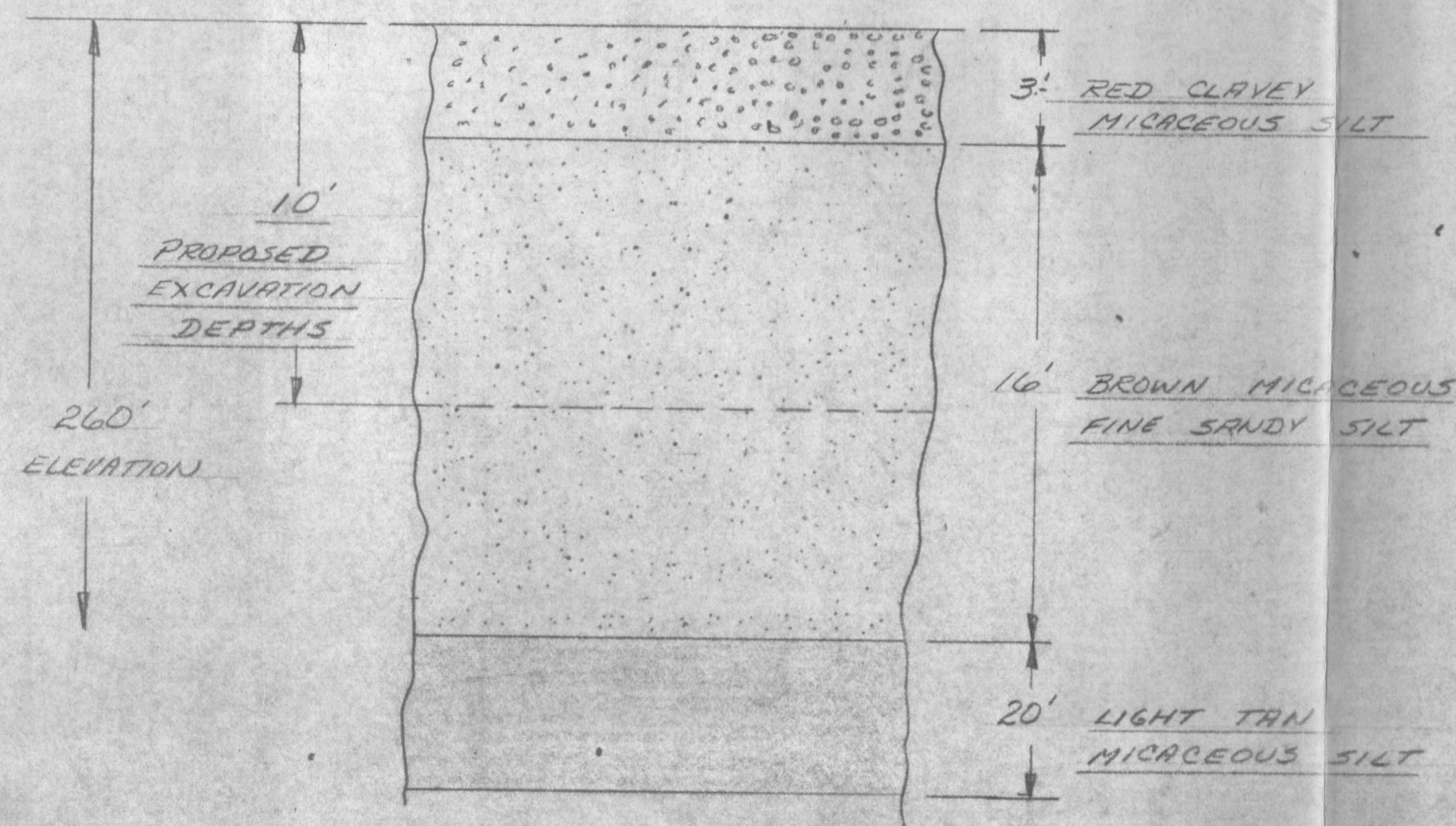
Remarks:

FROEHLING & ROBERTSON, INC.

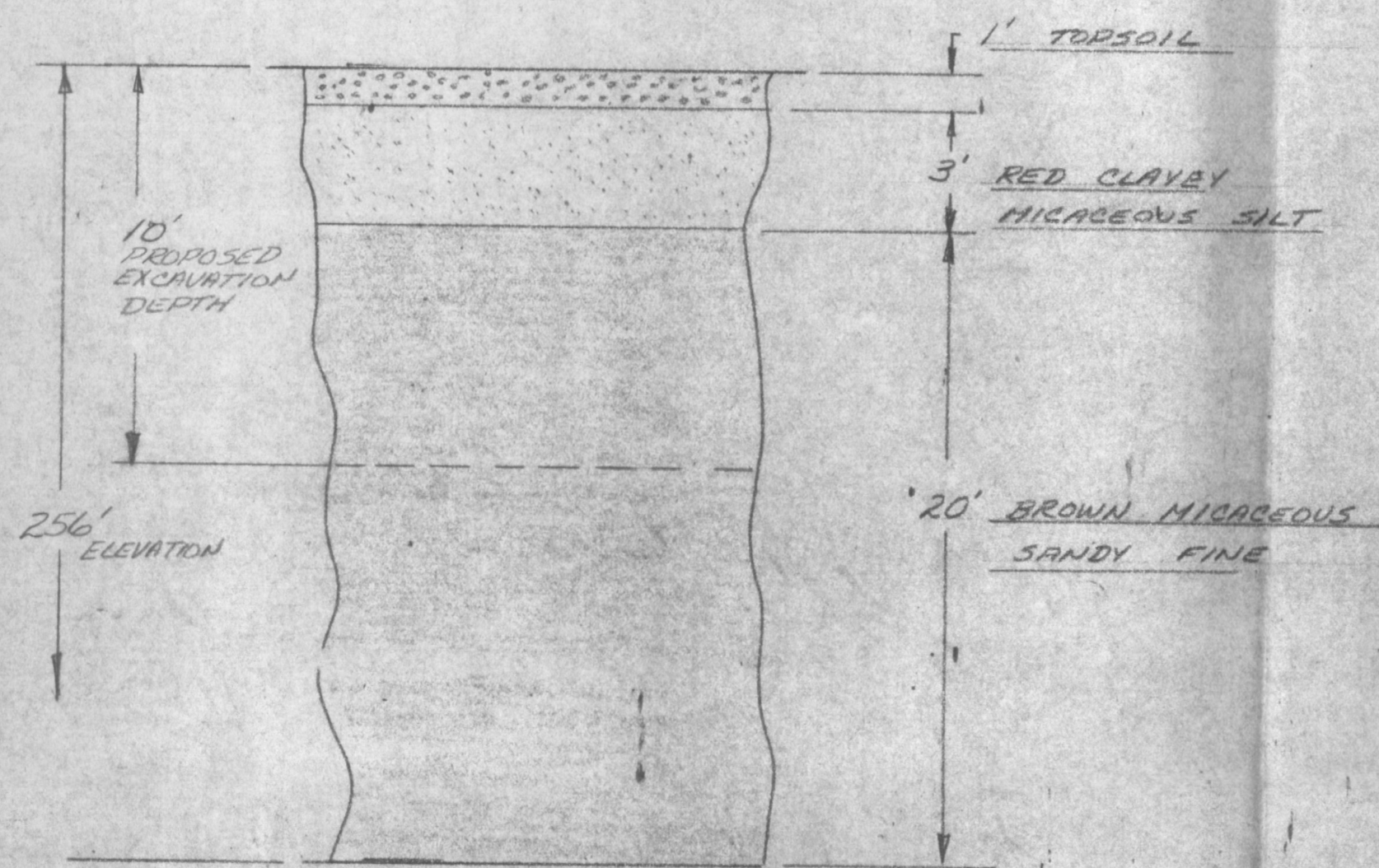
By: R. A. Gilstrap

ENC 7

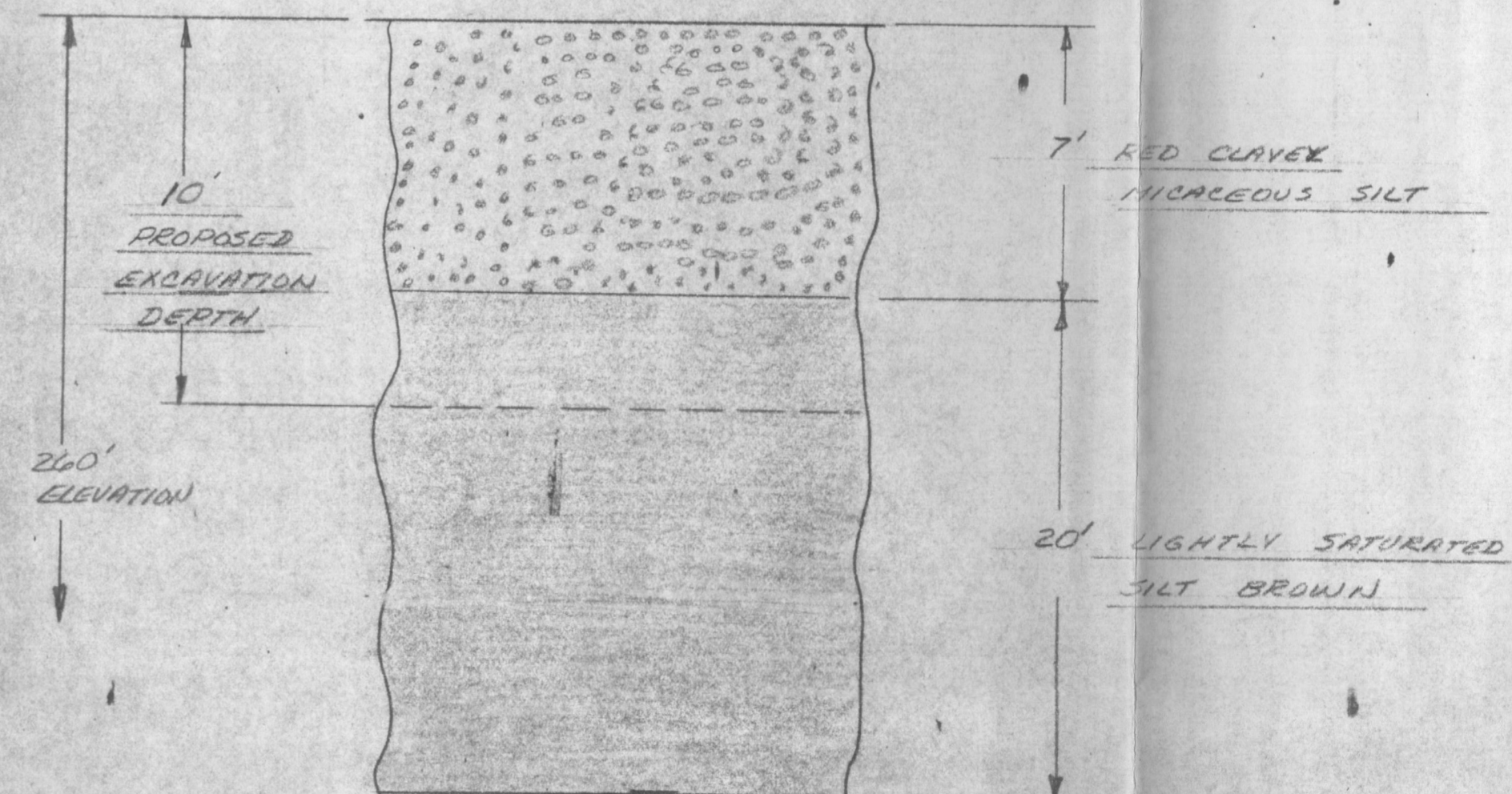
BORING NO. B-1



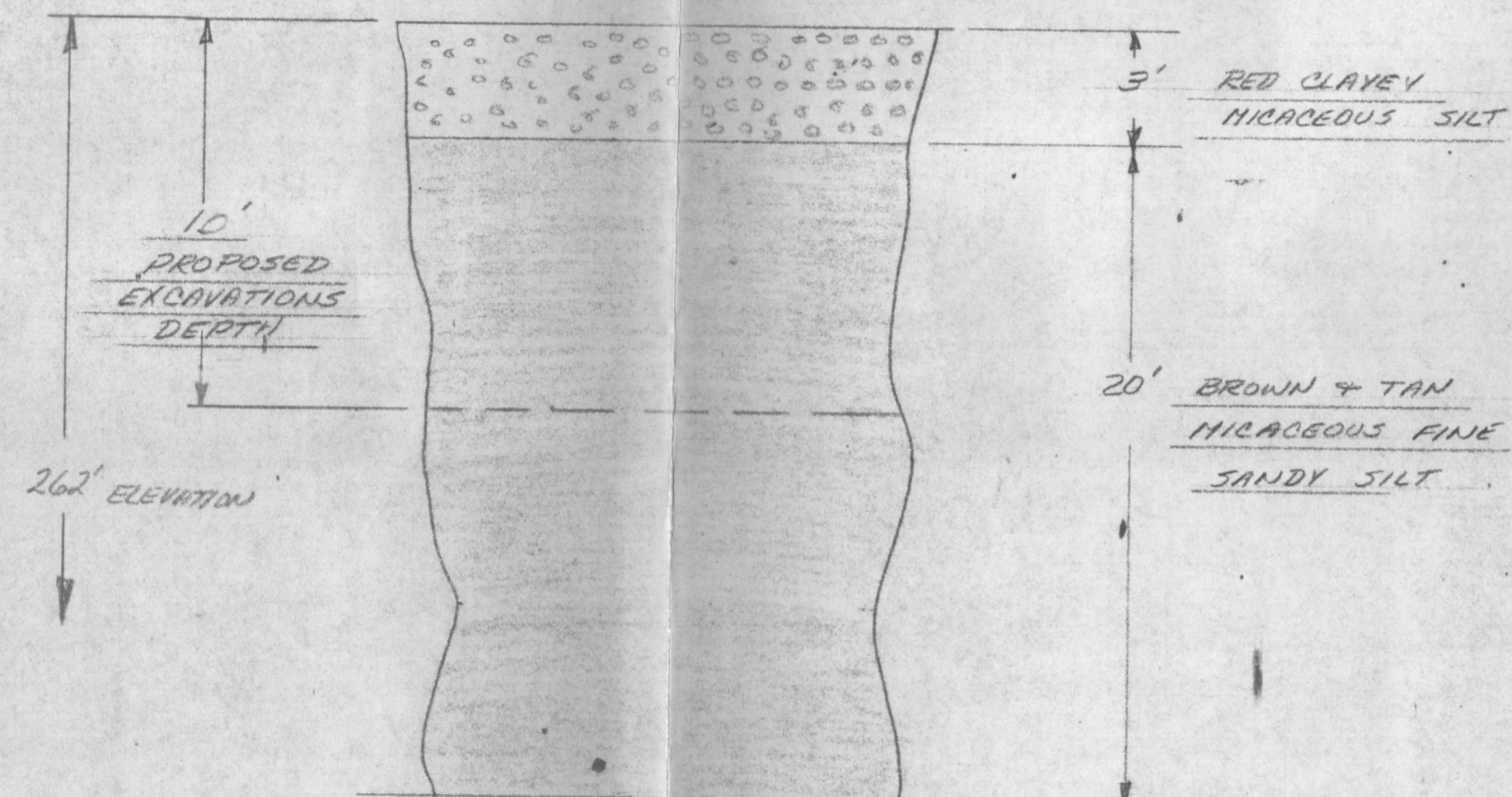
BORING NO. B-2



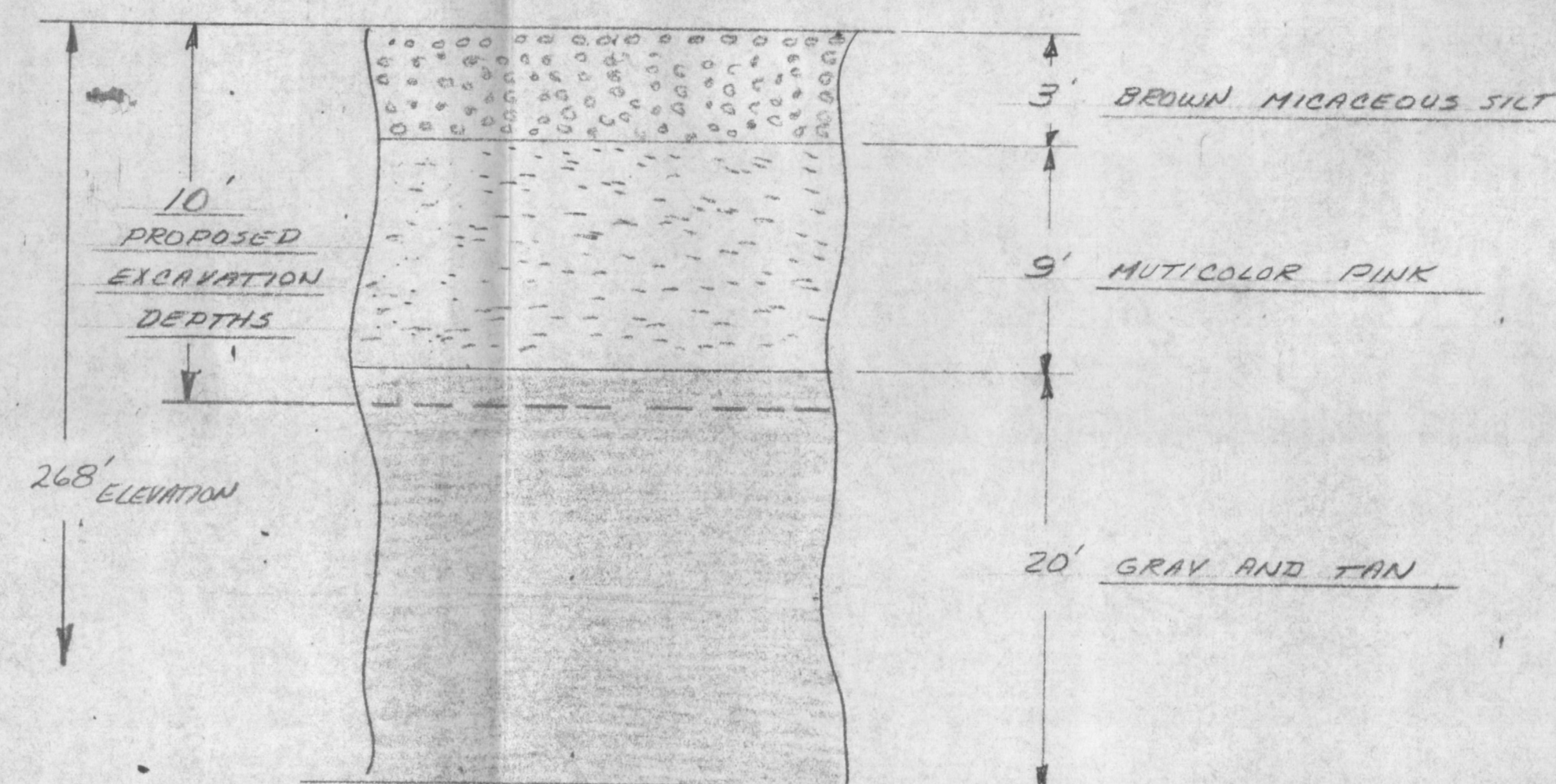
BORING NO. B-3

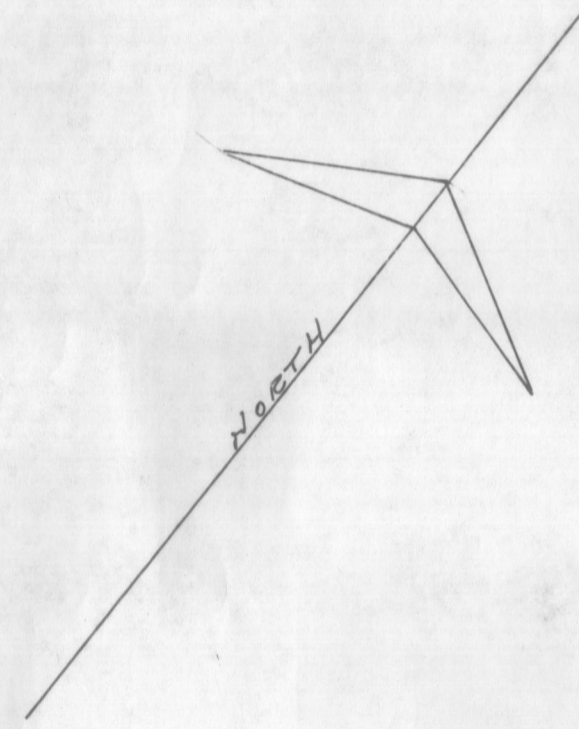


BORING NO. B-4



BORING NO. B-5





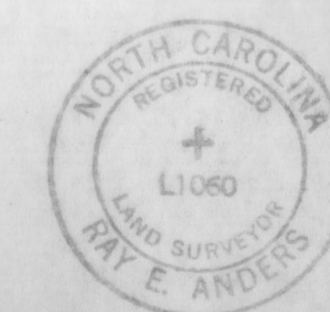
Note: New cover and telephone service under coat, along property line.

Note: This road under construction and finish grade is not set this date. Road to be finished.



TEST HOLE No.	ELEVATION
1	2261.9
2	2256.8
3	2260.1
4	2261.8
5	2268.8

NOTE: For U.S.S. Elevations add 2000 feet to contour elevations shown.



WALKER MANUFACTURING CO.  
ARDEN, NORTH CAROLINA

RAY E. ANDERS  
DECEMBER 1968  
PAGE 3 OF 3 PAGES





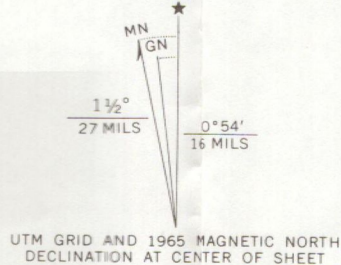
Maped and edited by Tennessee Valley Authority  
Published by the Geological Survey

Control by USCGS, USGS, and TVA

Revised by TVA in 1964 by photogrammetric methods using  
aerial photographs taken 1962-63 and by reference to TVA-USGS  
quadrangle dated 1942. Map field checked by TVA, 1965

Polyconic projection, 1927 North American datum  
10,000-foot grid based on North Carolina  
rectangular coordinate system  
1000 meter Universal Transverse Mercator Grid ticks,  
Zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines  
visible on aerial photographs. This information is unchecked



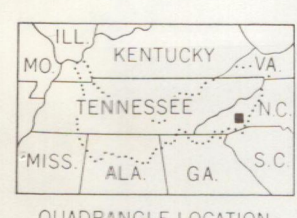
SCALE 1:24,000

CONTOUR INTERVAL 20 FEET

DASHED LINES REPRESENT HALF-INTERVAL CONTOURS

DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20242,  
U.S. TENNESSEE VALLEY AUTHORITY, CHATTANOOGA, TENN. 37401 OR KNOXVILLE, TENN. 37902,  
AND TENNESSEE DIVISION OF GEOLOGY, NASHVILLE, TENNESSEE 37219  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



QUADRANGLE LOCATION

ROAD CLASSIFICATION  
Heavy-duty ..... Poor motor road .....  
Medium-duty ..... Wagon and jeep track .....  
Light-duty ..... Foot trail .....  
Interstate Route ..... U. S. Route ..... State Route .....  
In developed areas, only through roads are classified



SKYLAND, N.C.  
N3522.5-W8230/7.5

1965

AMS 4454 1 NE SERIES V842